

Title (en)  
5G OPTIMIZED GAME RENDERING

Title (de)  
5G-OPTIMIERTE SPIELDARSTELLUNG

Title (fr)  
RENDU DE JEU OPTIMISÉ PAR LA 5G

Publication  
**EP 4182044 A1 20230524 (EN)**

Application  
**EP 20746714 A 20200720**

Priority  
IB 2020056798 W 20200720

Abstract (en)  
[origin: WO2022018483A1] According to some embodiments, a method performed by a virtual environment rendering engine for remote rendering of a virtual environment for a client device comprises: receiving an indication of network latency between the virtual environment rendering engine and the client device; receiving an indication of a client viewport field of view for the client device; based on the network latency, determining an adjusted viewport field of view; and generating a projection mapped 360 degree video frame. The pixel density within the adjusted viewport field of view is greater than the pixel density outside the adjusted viewport field of view. The method further comprises encoding the projection mapped 360 degree video frame and transmitting the encoded projection mapped 360 degree video frame to the client device.

IPC 8 full level  
**A63F 13/35** (2014.01); **A63F 13/332** (2014.01); **A63F 13/335** (2014.01); **A63F 13/352** (2014.01); **A63F 13/355** (2014.01); **A63F 13/358** (2014.01)

CPC (source: EP US)  
**A63F 13/332** (2014.09 - EP US); **A63F 13/335** (2014.09 - EP); **A63F 13/35** (2014.09 - EP); **A63F 13/352** (2014.09 - EP);  
**A63F 13/355** (2014.09 - EP US); **A63F 13/358** (2014.09 - EP US); **H04L 65/1016** (2013.01 - EP); **H04L 65/1069** (2013.01 - EP);  
**H04L 65/70** (2022.05 - EP); **H04L 65/80** (2013.01 - EP); **A63F 2300/538** (2013.01 - US); **A63F 2300/8082** (2013.01 - US);  
**H04L 65/612** (2022.05 - EP); **H04N 21/21805** (2013.01 - EP)

Citation (search report)  
See references of WO 2022018483A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022018483 A1 20220127**; EP 4182044 A1 20230524; US 2024033624 A1 20240201

DOCDB simple family (application)  
**IB 2020056798 W 20200720**; EP 20746714 A 20200720; US 202018017342 A 20200720